

Supplementary Materials 2 – Data Validation

The data extracted from the full text sources were constrained to the following options:

Item	Valid entries
First author	Free choice
Year	Free choice
Title	Free choice
Imaging modality	Echocardiography (CT) X-ray computed tomography (CTA) Contrast enhanced CT angiogram (MRI) Magnetic Resonance Imaging (gated and/or navigated bSSFP) (MRA) Contrast enhanced MR angiogram (PC-MRI) Phase contrast MRI
Segmentation method	Brightness thresholding Centreline extraction Region growing Boundary detection Cropping Active contour segmentation Boolean operations Watershed segmentation Dynamic region growing Manual editing
Segmentation descriptive quality	(1) No description of segmentation procedure (2) Mention of the segmentation methods used, but no description of how these were applied (3) Full description of how the segmentation methods used were applied, such that the procedure could be understood and reproduced
Segmentation software	Free choice
Segmentation duration	Free choice
Model subject	Free choice
Type of modelling	(Computational) Use of physical modelling as a means of computational model validation (Physical) Fabrication of patient specific models (Tissue) Fabrication of patient specific models for tissue engineering
Clinical application	(Medical) Fabrication for investigation of the cardiovascular condition (Interventional) Fabrication for planning of interventional procedure (Surgical) Fabrication for planning of surgical procedure (Educational) Fabrication for use in educational or training programme

